



ONE HUNDRED AND TWENTY-SIXTH CONVOCATION

CONVOCATION

FRIDAY
JUNE
16
2023

FACULTY OF SCIENCE
Convocation Ceremony

CONVOCATION

On this day, as the University of Waterloo awards degrees and celebrates the achievements of a new generation of graduates, the members of the University and its guests share in a 900-year-old ritual called convocation.

Table of Contents

FRIDAY, JUNE 16, 2023

CONGRATULATIONS

Message from the Chancellor	2
Message from the President and Vice-Chancellor	3
Message from the Alumni Council Chair	4

OUR TRADITION OF CONVOCATION

A Calling Together	5
Connecting with Tradition	5
The Procession	6
The Mace	6
The Coat of Arms and Motto	7
Degrees and Honorary Degrees	7

A NEW TRADITION

Eagle Staff	8
-------------	---

DISTINGUISHED UNIVERSITY MEMBERS AND AWARDS

Honorary Doctorates	9
Distinguished Professors Emeriti	12
Honorary Members of the University	13
Guest Speakers	15
Valedictorians	16

MORNING CEREMONY

Graduate Degrees	18
Undergraduate Degrees	20

AFTERNOON CEREMONY

Graduate Degrees	27
Undergraduate Degrees	28
Outstanding Achievements	33

OUR TRADITION OF REGALIA

The Gown	35
The Hood	35

Message from the Chancellor

Welcome graduands, family members, and friends to the Spring 2023 convocation.

As Chancellor of the University of Waterloo, it is my honour to preside over this ceremony.

Today, we welcome representatives from our community including faculty, staff and alumni to share in and celebrate these achievements.

Convocation marks the growth of the University of Waterloo family with all of our graduates as its newest alumni members. Since the institution's inception in 1957, we have conferred nearly 242,000 degrees and certificates. Our alumni community extends to over 150 countries, and offers a network regardless of where the future takes our graduates.

The University of Waterloo is driven by a desire to uncover innovation through creativity. We are an institution founded in extraordinary times, and as a result generates extraordinary leaders.

When I look across our campuses and beyond, I see impactful innovations coming to fruition. Examples include using quantum to improve MRI capabilities, finding new methods to combat the spread of misinformation and integrating AI more seamlessly into a variety of applications – all three examples are gaining momentum because of the work being done at Waterloo.

We are a community of innovative leaders who seek out ways to solve the big problems of our time, from solar geo-engineering that mitigates global warming to miniature diabetes monitors that can detect glucose. What can't be lost is the breadth of

knowledge and imagination within our community. From best-selling poets to NASA researchers and venture capitalists, Olympians to CEOs of multi-national corporations and leading environmentalists, we are providing the world with more Waterloo, and it is making the world a better place.

Profound disruptions persist globally – economic, technological, political, and social. This creates challenges, but also opportunities like we've never seen before. The world needs our graduates to harness all their experiences to lead and shape the future. The exceptional knowledge and creativity they have honed at the University of Waterloo has prepared all of them to be the leaders the world needs.

As our graduates cross the stage, they will bear the privilege and responsibility of bringing the spirit and values of this distinguished institution with them, wherever their lives may lead. They now have an opportunity to shape a better, more equitable world through their careers and community involvement.

Congratulations to all of our graduates and thank you for continuing the Waterloo tradition of excellence.



DOMINIC BARTON
Chancellor

“FROM BEST-SELLING POETS TO NASA RESEARCHERS AND VENTURE CAPITALISTS, OLYMPIANS TO CEOs OF MULTI-NATIONAL CORPORATIONS AND LEADING ENVIRONMENTALISTS, WE ARE PROVIDING THE WORLD WITH MORE WATERLOO, AND IT IS MAKING THE WORLD A BETTER PLACE.”

Message from the President and Vice-Chancellor

Congratulations to the Class of 2023.

We are thrilled to welcome our graduates and their family, friends and supporters to celebrate this momentous occasion.

Today's ceremony recognizes the hard work and perseverance students demonstrated during their time at the University of Waterloo. The experience at Waterloo is more than the knowledge gained in the classroom or library or the research undertaken in a lab. It is about the relationships and networks forged during each student's time here. Our institution's rich history and the success of our alumni is rooted in community. As graduates transition from student to alumni, I hope each will continue to stay connected to the Waterloo community.

For the family, friends, and supporters of our graduates, thank you. Thank you for being there for our students, for supporting them and encouraging their success. And thank you for being here today – this ceremony is more meaningful as a result of everyone's participation.

At the University of Waterloo, we pride ourselves on identifying and solving big, complex challenges facing our world. This happens not only on our campuses, but across the globe through our network of alumni. As the world continues to face multiple major crises that cut across society, health, the environment, technology and the economy, each new graduate is among the future leaders and change-makers

who can help address these challenges and build a better future for humanity and our planet.

Waterloo graduates are known for integrating knowledge and problem-solving across disciplines. I look forward to hearing about the passions, the innovations and impact our graduates will have on their communities.

We all have an opportunity, and a responsibility, to positively impact those around us. Let's all work together to help shape the world for the better.

On behalf of the University of Waterloo, I wish you the best of luck in the journey ahead.



Vivek Goel

VIVEK GOEL

CM

President and Vice-Chancellor

**“AS YOU BEGIN THE NEXT CHAPTER OF YOUR JOURNEY,
I ENCOURAGE YOU TO THINK UNCONVENTIONALLY.”**

Message from the Alumni Council Chair

Congratulations Class of 2023!

On behalf of the University of Waterloo Alumni Council and your fellow alumni, congratulations on the successful completion of your degree. You demonstrated hard work, dedication and resilience. We are proud of you and delighted to welcome you as the newest members of our community.

Graduation is a significant milestone for you both personally and professionally. I encourage you to celebrate your achievement and take time to appreciate the people in your life that helped you along the way – your family, friends, classmates, and teachers.

As you look ahead to the next phase of your life, I'm confident that your time at Waterloo has prepared you well. You have the expertise, creativity and resourcefulness to tackle whatever problem you choose.

Welcome to a network of more than 242,000 alumni, connected by their experiences at Waterloo.

Throughout your career, I encourage you to stay connected to your alumni community. There are more than 242,000 of us and we are here to support you as you work towards your goals. You can contact Waterloo alumni from anywhere in the world – through our Global Ambassadors, Alumni Chapters and online groups.

I also hope you will join me in sharing your time, knowledge and passion with the University. It is rewarding to volunteer with other talented alumni and your unique perspective can benefit future graduates more than you know.

Congratulations once again on your graduation. You have much to be proud of and a very bright future ahead of you!

I wish you all the best.



A handwritten signature in black ink that reads "Diana Vangelisti".

DIANA VANGELISTI

BES '84 MA '89

Chair, University of Waterloo Alumni Council

**“THERE ARE MORE THAN 242,000 OF US AND WE ARE HERE
TO SUPPORT YOU AS YOU WORK TOWARDS YOUR GOALS.”**

Our tradition of convocation

The ritual of convocation is a tradition that honours the roots of the University, and is, at the same time, a beginning for students who now enter a new stage in their lives.

We welcome guests on this celebratory occasion and thank you for being present to share in it.

Both the symbols and the ceremony of convocation look back far beyond the beginning of the University of Waterloo, back to the centuries of university life in Western civilization which Waterloo joined six decades ago. The founders of this University were eager from the beginning to make it part of that long tradition, although they proudly asserted that they were building a new and innovative university, with close ties to industry and an emphasis on practical knowledge for building the future.

On this day, as ancient customs mix with the use of up-to-date technology and the exuberance of a new generation, convocation connects a forward-looking university with the traditions that universities have observed as long as they have existed.

The University of Waterloo grew out of an older institution, Waterloo College. A still older one, the University of St. Jerome's College, soon became federated with it, and the College of Optometry of Ontario joined the family in 1967. Although all these institutions were newcomers compared with Oxford and Harvard and the Jagiellonian, the connection to the traditional role and style of a university remains clear.

Tradition underlies the proceedings of today's convocation, the continuity of this University with centuries of academic experience. Passion brings the proceedings to life, along with the enthusiasm with which the University recognizes new achievements and new ideas.



1960s
CONVOCATION
AT WATERLOO

A CALLING TOGETHER

Students graduate at the end of a program of study, leading to a degree with a traditional name: Bachelor, Master, or Doctor. On this day, their families and friends celebrate their success and their transition from one status in life to another. Convocation has been, for the past nine hundred years, a meeting of the whole university community at which symbols are displayed, participants wear special attire to emphasize their official roles, and speakers share their wisdom and the values that the University seeks to teach. Convocation (the name comes from Latin, which was once the chief language of higher education) is a calling together of new graduates to receive the symbols of their accomplishment, and a calling together of the older members of the university to be witnesses and join in the celebration.

CONNECTING WITH TRADITION

At Waterloo's first convocation in June 1960, the guest speaker was James J. Talman of the University of Western Ontario, who told the audience a little about the history of Waterloo County and its industry. "The greatest resource we still have is the minds of the people," Talman said, "and this resource still remains to be developed to its full potential. The people of the Grand Valley clearly appreciate this fact. As we see the success with which they developed the physical resources in the past, we can only conclude that they will be just as successful in developing the intellectual resources of the future. The University of Waterloo can look forward to a brilliant and successful future."

THE PROCESSION

The most impressive part of the ceremony may be the procession that begins it. The graduating students will come in first, and as they fill up the main body of the hall, they will give the impression that today's ceremony really is, as convocation used to be, a ceremonial meeting of the whole University community.

After the graduating students have come in, the academic procession will begin. First to enter is the ceremonial Eagle Staff, a symbolic representation of the continuous presence of Indigenous peoples of these lands, carried in by an Eagle Staff carrier. Next, a selected faculty member will carry the mace, a traditional symbol of the University's authority. Then faculty members enter, walking two by two, dressed in their academic finery.

The final party to arrive is the Chancellor's party. The Chancellor is the ceremonial head of the University of Waterloo. The Chancellor presides over convocation ceremonies every June and October and awards all degrees, diplomas and certificates, including honorary degrees. The Chancellor offers an inspirational message for the graduands – at these ceremonies.

THE MACE

This solid silver and ebony wand was given to the University in 1965 by the family of the late Stanley F. Leavine and was designed by Toronto artist Eric Aldwinckle and crafted by silversmith Harold Stacey to symbolize the University as it was at that time. It displays lions, chevrons, and the shield of the province of Ontario, from which the University holds its charter to grant degrees.

The symbolic theme of the mace is unity amid diversity, and tension in the creative intellectual process that strives to bring forth a new individual. The design of the mace interprets this theme in the idiom of the life process: from the seeds at the base of the stave the mace grows in unity and strength until it differentiates by a four-fold separation into diverse elements.





The four-fold diversity is significant because of the four faculties existing at the time the mace was presented to the University and as well of the four church-related colleges federated and affiliated with the University. These diverse elements together form a crown, and the point of the crown, while tending toward a union, do not quite touch. They remain as individuals suspended in tension and yet engaged in deep harmony. This creative process is focused not on the traditional spherical orb of static perfection but rather on an elliptical silver ovum – the egg-shaped symbol of creativity – the marvelous potential of a new individual life.

THE COAT OF ARMS AND MOTTO

The lions and chevrons also appear on the shield that is the University's coat of arms and that is imprinted on the graduates' diplomas. Derived from traditional heraldry, it has been used since 1961 and was registered with the Court of the Lord Lyon in 1987. The shield uses the official colours of gold, black, and white, and its symbols refer to the University's base in the cities of Kitchener and Waterloo. The unusual double chevrons were borrowed from the coat of arms of Lord Kitchener of Khartoum, and the red lions are like those on the coat of arms of the Duke of Wellington, victor at the 1815 Battle of Waterloo. The lions also reflect the tough and innovative spirit of the University's founders and builders, and the black and white in the chevron are the colours of Prussia, reflecting the Germanic background of many Waterloo County settlers. Beneath the shield appears the University's motto, *Concordia cum veritate*, "In harmony with truth."

DEGREES AND HONORARY DEGREES

Presentations of earned and honorary degrees, and the speeches associated with them, take up most of the time at Convocation. Undergraduate and graduate degrees are awarded in each of our six faculties: the faculties of Arts, Engineering, Environment, Health, Mathematics and Science. Also included are students who attended our colleges, Conrad Grebel University College, Renison University College, St. Jerome's University and United College.

In addition to "earned" degrees awarded to students who have met the requirements through years of effort, the University of Waterloo confers "honorary" degrees to individuals who have been designated by the Senate, the University's academic governing body, as deserving special honour. They, too, receive hoods, lined with the colour of the faculty that nominated them or with specially designated colours for other kinds of achievement.

By tradition, public service is recognized with a Doctor of Laws degree even in a university that does not regularly teach law. The individuals receiving honorary degrees are introduced during the ceremony, and a brief citation is read to explain their various accomplishments deserving of recognition by a university. One of the honorands will address convocation after the degree has been given.

A new tradition

EAGLE STAFF

On September 22, 2022, the University of Waterloo held a Commitment Ceremony pledging action towards decolonization, Indigenization and reconciliation. The University is committed to fostering better understanding of Indigenous histories and ensuring Indigenous knowledges and ways of knowing are represented in our scholarship, in our research and in our teachings. Weaving in the knowledges, ways of knowing, and understandings of First Nation, Métis and Inuit peoples equips the Waterloo community, especially Waterloo graduates, with the tools and knowledge they need to create a better future for all. The commitment was formalized through a Pipe Ceremony, after which President and Vice-Chancellor, Vivek Goel, was given the name “Ogiima” (meaning leader) and presented with gifts of an eagle feather and two Wampum belts.

Building on the desire and responsibility to incorporate Indigenous perspectives, the University of Waterloo community came together for a ceremony on March 27, 2023, to welcome an Eagle Staff to the University.

An Eagle Staff is an important element of the Indigenous relationship to Earth and those that have protected it. It reflects the wisdom, strength and honour of those that carry it in representing different Nations across Turtle Island. By welcoming the Eagle Staff, the University acknowledges the responsibility to recognize, accept and incorporate Indigenous perspectives in the ways we teach, govern and behave as an institution. The Eagle Staff will be present at future Waterloo ceremonies and celebrations and will have a prominent place in convocation ceremonies.

The Eagle Staff honours the University’s First Nations, Métis and Inuit community members, as well as their traditions, cultures and strengths. It is a sacred item that holds a spirit within itself that is cared for by the Indigenous campus community, and that care is reciprocated by the Eagle Staff.

Waterloo Region is situated on territory traditionally shared by Anishinaabeg, Neutral (or Attawandaron), and Haudenosaunee Nations. Though many nations, including the Anishinaabeg, involve an Eagle Staff in their traditions and practices, we respectfully acknowledge that this is not the practice of all nations. With gratitude, we honour and celebrate the unique traditions of all First Nations, Métis and Inuit people, and look forward to reflecting this diversity in spirit and custom as we move forward on this path of decolonization, Indigenization, and reconciliation.



**“THE STAFF WILL SERVE AS AN IMPORTANT SYMBOL AND REMINDER OF THE
COMMITMENT WE MADE TO RECONCILIATION AND SERVE AS INSPIRATION
FOR OUR UNIVERSITY COMMUNITY TODAY AND FOR FUTURE GENERATIONS.”**

VIVEK GOEL
President and Vice-Chancellor

Honorary Doctorates

An honorary degree (*honoris causa*) is the highest honour conferred by the University. Through the conferring of honorary degrees, the University of Waterloo seeks to recognize outstanding achievement, whether academic or through service to society.



TREVOR HASTIE

PhD

Doctor of Mathematics, *honoris causa*

WEDNESDAY, JUNE 14 / AFTERNOON CEREMONY

Dr. Trevor Hastie is John A. Overdeck Professor of Mathematical Sciences at Stanford University and a member of the United States National Academy of Sciences. He has made seminal contributions to statistical computing, modelling, and machine learning, with over 200 research articles and six books. He helped develop the statistical modelling environment behind the R computing system that we all use today, invented or co-invented many important tools in modern statistics, and authored numerous highly-acclaimed statistical software. Having guided several generations of statisticians and data scientists with his work, Hastie is one of the most influential statisticians of our time.



ARLIE PETERS

PhD, Provost

Doctor of Mathematics, *honoris causa*

WEDNESDAY, JUNE 14 / EVENING CEREMONY

Dr. Arlie Petters received his PhD in mathematics from MIT in 1991. At Duke University (1998 to 2019), he was the Benjamin Powell Professor of Mathematics and a professor of Physics, Economics and Business. Since 2020, he has served as the provost at New York University Abu Dhabi. His outstanding scholarship resulted in numerous honours, including the inaugural Blackwell-Tapia Prize (2002). Petters was selected by the National Academy of Sciences to be part of a permanent Portrait Collection of Outstanding African Americans in Science, Engineering, and Medicine (2006), and named by the Queen of England to membership in the Most Excellent Order of the British Empire (2008).



SEANA BRIDGET MCKENNA

Doctor of Letters, *honoris causa*

THURSDAY, JUNE 15 / MORNING CEREMONY

Seana McKenna is a Canadian artist and director in theatre, television, and film. She has been a member of the Stratford Festival for 30 seasons, performing in over 50 roles. McKenna is a Member of the Order of Canada and is the recipient of three Dora Awards, a Jessie Award, and a Genie Award. McKenna shows great versatility in her roles and has challenged conventional Shakespearean theatre norms as one of only a few female performers to take on the roles of Richard III, Lear, and Julius Caesar. She has also received the Tyrone Guthrie Award in recognition of her contributions to mentorship.



JOHN BORROWS

BA, MA, JD, LL.M, PhD, LLD, DHL

Doctor of Letters, *honoris causa*

THURSDAY, JUNE 15 / AFTERNOON CEREMONY

Dr. John Borrows is a member of the Chippewas of Nawash First Nation in Ontario and is professor and Loveland Chair of Indigenous Law at the University of Toronto. He is an internationally recognized scholar of Indigenous legal rights. Borrows is an Officer of the Order of Canada. He is also a Fellow of the Royal Society of Canada, a Trudeau Fellow, and a Killam Prize and Molson Prize recipient. He received the Indigenous Peoples Counsel designation from the Indigenous Bar Association for honour and integrity in service to Indigenous peoples, the National Aboriginal Achievement Award in Law and Justice, and the Governor General's Innovation Award.

DEBRA PEPLER

OC, PhD, C, Psych

Doctor of Letters, *honoris causa*

THURSDAY, JUNE 15 / EVENING CEREMONY



Dr. Debra Pepler received her PhD in Psychology from the University of Waterloo and is a registered psychologist in Ontario. She is a Distinguished Research Professor in the Department of Psychology at York University and a Senior Adjunct Scientist at the Hospital for Sick Children. As a clinical and research psychologist, she has contributed to psychology through her groundbreaking work in bullying, aggression, and other forms of violence experienced by marginalized youth. Her work has changed how professionals understand the frequency, intensity, and impacts of children's experiences of aggression and violence, helping to shape and inform Canadian public policy on violence reduction within schools.

YANXIN WANG

PhD, CAS Fellow, IAGC Fellow

Doctor of Science, *honoris causa*

FRIDAY, JUNE 16 / MORNING CEREMONY



Dr. Yanxin Wang is professor of Hydrogeology and Environmental Engineering at the China University of Geosciences (CUG) in Wuhan. He is also the president of CUG and head of the State Key Laboratory of Biogeology and Environmental Geology. Wang's research has produced major advances in understanding of the sources, fate, and transport of contaminants in groundwater systems. Wang spearheaded the development of innovative remediation and management strategies that protect millions of people from contaminated drinking water. Under Wang's visionary and effective leadership, CUG has become one of China's top institutions in science and technology.

MARK WILLCOX

BSc, PhD, DSc

Doctor of Science, *honoris causa*

FRIDAY, JUNE 16 / AFTERNOON CEREMONY



Dr. Mark Willcox is a medical microbiologist and Professor in the School of Optometry and Vision Science at UNSW, Sydney, Australia. His laboratory focuses on understanding the etiology of adverse events and comfort during contact lens wear. His research includes examining mechanisms of adhesion of ocular microbes and the development of novel antimicrobial surfaces. He also studies tear film proteomics and lipidomics, their relationship to contact lens comfort and how tears may serve as biomarkers for diabetes and cancer. Recent awards include the Korb Award from the American Optometric Association (2020) and the Barry Collin Medal from Optometry Australia (2017).

CRISTINA AMON

BASc, MASc, PhD, DSc,

Order of Canada, FRSC, CAE

Doctor of Engineering, *honoris causa*

FRIDAY, JUNE 16 / EVENING CEREMONY



Dr. Cristina Amon is the Distinguished Alumni Professor and former dean at the University of Toronto's Faculty of Applied Science & Engineering. Under her visionary leadership, University of Toronto's engineering program has become a global hub for interdisciplinary research and education and a shining example of diversity and inclusion for women, People of Colour and Indigenous peoples in the engineering profession. She has been elected a fellow or honorary member of all major professional societies in her field. A pioneer in computational fluid dynamics for thermal designs subject to multidisciplinary constraints, Amon's research is in thermal transport in nanoscale semiconductors, energy systems, EV batteries and biomedical devices.

ROLA DAGHER

Doctor of Engineering, *honoris causa*

SATURDAY, JUNE 17 / MORNING CEREMONY



Rola Dagher, a leading figure in the Canadian technology sector, has made it her mission to empower those around her. Immigrating to Canada from war-torn Lebanon with an infant in the 1990s, Dagher worked as a retail sales clerk before becoming the president of Cisco Systems Canada and currently as Dell Technologies' global channel chief. Rola sees diversity as the foundation for building a high-performance workforce and is a vanguard of inclusive excellence. Dagher has been named a WXN Top 100 Most Powerful Women in Canada, the Women in Communications and Technology (WCT) Woman of the Year and is an RBC Top 25 Canadian Immigrant Award winner.

JOHN BUZACOTT

BSc, BE, MSc, PhD, DHC

Doctor of Engineering, *honoris causa*

SATURDAY, JUNE 17 / EVENING CEREMONY



Dr. John Buzacott, a former management sciences engineering professor, is a pioneering figure in production and operations management. Buzacott's work in developing a unified framework and rigorous scientific foundation of the approaches currently used in the design, planning and control of manufacturing and service systems has inspired scholars worldwide. His innovative use of stochastic models to explain many phenomena occurring in manufacturing and service organizations has also distinguished him as an exceptional researcher and educator. As a founding member of the Waterloo Management of Integrated Manufacturing Systems research group at the University of Waterloo, his contributions to manufacturing analysis and modelling work continues to be globally recognized.

Distinguished Professors Emeriti

The Distinguished Professor Emeritus designation is made to faculty members who have had a distinguished record of service in teaching and research in the University. The honorary award is granted upon, or shortly after, retirement.



KENNETH R. DAVIDSON

University Professor, PhD, FRSC, FIF, CMSF

Department of Pure Mathematics

WEDNESDAY, JUNE 14 / EVENING CEREMONY

Dr. Kenneth R. Davidson is one of the most accomplished mathematicians in Canada. After completing his undergraduate degree at Waterloo and his PhD at Berkeley, he spent two years as a Moore Instructor at MIT before returning to Waterloo as faculty in 1978. He has been awarded a substantial proportion of the research prizes available to Canadian mathematicians, beginning with the Israel Halperin Prize in Operator Algebras in 1985. This was followed by an E.W.R. Steacie Fellowship in 1988 and a Killam Research Fellowship in 1995. In 2014 he received the David Borwein Distinguished Career Award from the Canadian Mathematical Society for his “exceptional, broad, and continued contributions to Canadian mathematics.” He has been a Fellow of the Royal Society of Canada since 1992, a Fields Institute Fellow since 2006 and a Canadian Mathematical Society Fellow since 2018. Davidson is also a highly esteemed instructor and supervisor of 18 Master’s and 14 PhD students.



JOANNE WOOD

University Professor, PhD

Department of Psychology

THURSDAY, JUNE 15 / AFTERNOON CEREMONY

Dr. Joanne Wood retired as professor from the Department of Psychology after 33 years of service. Wood is recognized as one of the foremost experts in the world for understanding how personality influences relationships – particularly how self-esteem and agreeableness in one partner affect interpersonal interactions and relationship quality. She is also an expert on self-disclosure. In recognition of her work, she has received the Faculty of Arts Award for Excellence in Research and two University of Waterloo Outstanding Performance Awards. She is a Fellow of the Association for Psychological Science, the American Psychological Association – Division 8, and the Society for Personality and Social Psychology.



LORNE L. DAWSON

BA, MA, PhD

Department of Religious Studies,
Sociology and Legal Studies

THURSDAY, JUNE 15 / AFTERNOON CEREMONY

Dr. Lorne Dawson retired as professor from the departments of Religious Studies as well as Sociology and Legal Studies. During his tenure at Waterloo, he served as Chair for each department. Dawson is a Research Fellow at the Balsillie School of International Affairs and a Senior Associate at the Munk School of Global Affairs and Public Policy (University of Toronto). He is best known for his contributions to the fields of sociology of religion, and more recently, for his work on terrorism and the process of radicalization that leads to violence. In 2012, he co-founded the Canadian Network for Research on Terrorism, Security, and Society, funded by SSHRC and several government agencies.

Honorary Members of the University

The Honorary Member of the University designation is the highest honour a staff member can obtain at the University of Waterloo and is granted upon retirement. It recognizes the individual for outstanding service to the University as a whole, not limited to one department or faculty. For faculty members, it recognizes distinctive administrative service to the University.



TERRY STEWART

BA, MA

Information Systems and Technology

TUESDAY, JUNE 13 / MORNING CEREMONY

Terry Stewart's involvement with the University of Waterloo spanned nearly 50 years. He completed BA and MA degrees in Recreation and Leisure Studies in 1975 and 1976, respectively. He started his role as a research associate in the Department of Recreation and Leisure Studies in 1981, followed by microcomputer laboratory manager and coordinator of the Leisure Studies Bank in 1984. His role changed to coordinator of computing in 1991, then manager of information technology in 2005, and director of information technology in 2012. Stewart retired in 2015.



EDWIN ANDERSON

BA

Faculty of Mathematics

WEDNESDAY, JUNE 14 / EVENING CEREMONY

Edwin (Ed) Anderson's career in education began as a secondary school mathematics teacher in Wingham, ON, from 1956 until 1970, when he moved to the University of Waterloo as a lecturer in the Faculty of Mathematics, where he worked until his retirement in 1991. He helped lead the expansion of mathematics contests that now see more than 250,000 registrations annually from more than 80 countries and was integral to the success of the Mathematics/Teaching undergraduate program. For almost 30 years after his retirement, Anderson remained active in outreach activities, assisting with contests, student workshops and strategic direction.



BARBARA SCHUMACHER

MD

Campus Wellness, Health Services

TUESDAY, JUNE 13 / AFTERNOON CEREMONY

Dr. Barbara Schumacher shepherded the campus community through serious health challenges, including cases of tuberculosis and outbreaks of meningitis and Swine Flu, while championing progressive and equitable programs that enhanced the lives of thousands of students, faculty and staff during her 39 year career at the University. Promoting mental well-being, tackling sexual harassment, and establishing the Occupational Health office for staff were just a few of her initiatives. In addition, Schumacher's efforts in promoting better health went beyond Waterloo and benefitted people at universities across Ontario. And after retiring as Waterloo's medical director of Health Services in 2015, she established a fund to help refugees continue their university education.



STEVEN FURINO

PhD

Faculty of Mathematics

WEDNESDAY, JUNE 14 / EVENING CEREMONY

Dr. Steven Furino was a faculty member, first in the Department of Mathematics at St. Jerome's University and then in the Centre for Education in Mathematics and Computing at the University of Waterloo, from 1989 until 2020. Furino was an excellent teacher who won the Distinguished Teacher Award in 1989 and was a champion of online education in the Faculty of Mathematics. He was also an outstanding administrator, serving as associate dean, undergraduate and assistant dean. Furino's distinguished service also included educational work in Africa and leadership in the Faculty Association and the University's undergraduate communication initiatives.

SHARON LAMONT

BA

Library

THURSDAY, JUNE 15 / MORNING CEREMONY



A Waterloo alum, Sharon Lamont's (BA, '80) career spanned four decades, culminating in a Library senior leadership position and other noteworthy University-level achievements. During her career, Sharon's leadership and contributions to the Library, community and philanthropy advanced the University's progress toward building a culture of inclusivity and excellence. Lamont's leadership extended across campus, notably with the Waterloo Staff Association, United Way staff campaign and Joint Health and Safety Committee. One of her key achievements was leading the Library to Silver Certification from Excellence Canada. Sharon retired in May 2021 after nearly 40 years of service.

GEORGE FREEMAN

BASc, PhD

Faculty of Engineering

SATURDAY, JUNE 17 / MORNING CEREMONY



Dr. George Freeman is a retired electrical and computer engineering professor at the University of Waterloo. Freeman established a sterling reputation as an outstanding engineering educator throughout his career. He served as electrical and computer engineering's teaching and learning champion from 2018 until his retirement in 2022. Freeman's work promoted evidence-based practices for improved learning outcomes, mental health and community building. He also received the Dedicated Service Award from the Canadian Association of University Teachers for his exceptional service to their academic staff associations. Freeman's research interests include signal processing for digital communications, optimal lossless data compression algorithms, and storage and recognition applications in speech and image coding.

Guest speakers

SCOTT LEATHERDALE

PhD, FAAHB

School of Public Health Sciences

TUESDAY, JUNE 13 / MORNING CEREMONY



Dr. Scott Leatherdale is a professor in the School of Public Health Sciences. He is a Cancer Care Ontario Research Chair, a CIHR-PHAC Chair in Applied Public Health Research, and a University Research Chair at the University of Waterloo. Before coming to Waterloo, he was a Scientist at Cancer Care Ontario, responsible for leading Ontario's cancer prevention system. For the past 15 years since joining Waterloo, Leatherdale has developed and led the COMPASS System, the world's largest and most comprehensive youth-focused cancer prevention and mental health learning system. He was an inaugural winner of the Canadian Institutes of Health Research (CIHR) Trailblazer Award in Population Health Solutions and is the first (and only) Canadian researcher to be awarded Fellow status in the American Academy of Health Behavior. His proudest achievement is being the father of two fun and energetic little boys, Thomas and James.

RAPHAEL AYAMBIRE

BSc, PhD '21

TUESDAY, JUNE 13 / AFTERNOON CEREMONY



As the University of Waterloo's 2021 Caivan International Experience Postdoctoral Fellow, Dr. Raphael Ayambire brings a unique perspective to the challenge of planning and building the world's future cities. After growing up in rural Ghana supporting his parents' agricultural activities, he graduated with a BSc in development planning in Ghana, then journeyed to Canada to complete a planning PhD at Waterloo. Ayambire's lived experience and his education on two continents, has shaped his passionate vision for future cities that can respond to the climate crisis and transformative new technologies while ensuring social equity makes these communities truly sustainable. Ayambire will continue working toward this goal as an assistant professor in the University of Manitoba's Faculty of Architecture, Department of City Planning.

LISA AULTMAN-HALL

PhD

Systems Design Engineering

SATURDAY, JUNE 17 / AFTERNOON CEREMONY



Dr. Lisa Aultman-Hall is professor and chair of Systems Design Engineering. Before joining the University of Waterloo, she served as a professor of Civil Engineering at the Universities of Kentucky, Connecticut and Vermont. Aultman-Hall's research focuses on sustainable transportation systems, especially methods to collect unique databases for modelling and analysis of long-distance travel, transportation sector emissions, network resiliency, streetscape design and non-motorized transportation. A common thread in her work is the pursuit of accessibility metrics that speak to equity. She served several leadership roles at the interdisciplinary University of Vermont Transportation Research Center and as the associate director of the National Center for Sustainable Transportation with the University of California Davis.

Valedictorians

Katie Ivancic Faculty of Health
TUESDAY, JUNE 13 / MORNING CEREMONY

Bennett Paul Gallant Faculty of Environment
TUESDAY, JUNE 13 / AFTERNOON CEREMONY

Advitya Chhabra Faculty of Mathematics
WEDNESDAY, JUNE 14 / MORNING CEREMONY

Yichen Carolyn Wang Faculty of Mathematics
WEDNESDAY, JUNE 14 / AFTERNOON CEREMONY

Vincent Macri Faculty of Mathematics
WEDNESDAY, JUNE 14 / EVENING CEREMONY

Thomass Muir Faculty of Arts
THURSDAY, JUNE 15 / MORNING CEREMONY

Arjun Jain Faculty of Arts
THURSDAY, JUNE 15 / AFTERNOON CEREMONY

Ammar Kamran Faculty of Arts
THURSDAY, JUNE 15 / EVENING CEREMONY

Tyler Jing Faculty of Science
FRIDAY, JUNE 16 / MORNING CEREMONY

Ahmed Adeldader Faculty of Science
FRIDAY, JUNE 16 / AFTERNOON CEREMONY

Toluwalope Wright Faculty of Engineering
FRIDAY, JUNE 16 / EVENING CEREMONY

Maya Bishop Faculty of Engineering
SATURDAY, JUNE 17 / MORNING CEREMONY

Yonael Debebe Faculty of Engineering
SATURDAY, JUNE 17 / AFTERNOON CEREMONY

Matthew Linehan Faculty of Engineering
SATURDAY, JUNE 17 / EVENING CEREMONY



MORNING CEREMONY

Degrees and diplomas from:
UNIVERSITY OF WATERLOO
FACULTY OF SCIENCE

Graduate Degrees

DOCTOR OF PHILOSOPHY

Chow, Hei-Yin John (Chemistry)

“Temperature Programming of the Second Dimension in Comprehensive Two-Dimensional Gas Chromatography (GC x GC)”

Chung, Kristian Tyn-Kai (Physics)

“Hodge Theory For Geometrically Frustrated Magnetism”

Dai, Xi (Physics - Quantum

Information)

“Superconducting Flux Circuits for Coherent Quantum Annealing”

Deol, Harmeen Kaur (Chemistry)

“Immature SOD1: Protein Folding, Misfolding and Aggregation”

Gharavi, Kaveh (Physics - Quantum Information)

“Superconducting Proximity Effect in Nanowire Josephson Junctions”

Golzar, Hossein (Chemistry -

Nanotechnology)

“Development of 3D printable, Hydrophilic, and Rapidly-Curing Silicone-Based Ink Formulations for Various Biomedical Applications”

Gray, Finnian Pdraig Stott (Physics)

“Symmetries in Black Hole Spacetimes”

Gunderman, Lane G. (Physics -

Quantum Information)

“Collective Spin-Cavity Ensembles and the Protection of Higher-Dimensional Quantum Information”

Jai-akson, Puttarak (Physics)

“Edge Modes and Carrollian Hydrodynamics on Stretched Horizons”

Lozano Gómez, Daniel (Physics)

“Symmetry Breaking, Order-by-Disorder, Fragmentation, and Spin-Liquids in the Magnetic Pyrochlore Lattice With Anisotropic Interactions”

Lu, Xinze (Earth Sciences)

“Early Paleozoic Ocean Redox Dynamics: Perspectives From Uranium Isotopes of Sedimentary Rocks”

Mashmouhi, Nour (Chemistry)

“The Investigation of Isomers Using Differential Mobility Spectrometry and Ultraviolet Photodissociation Spectroscopy”

Mathur, Avi (Chemistry -

Nanotechnology)

“Polymer Additive Engineering of Organolead Halide Perovskites: Effect on Device Characteristics and Scalable Manufacturing”

Moreira, Ryan (Chemistry)

“Synthesis and Study of the Cyclic Lipopeptide Antibiotics Daptomycin and A54145”

Nazdrajić, Emir (Chemistry)

“Development and Study of the Microfluidic Open Interface Coupled With Solid-Phase Microextraction for Rapid Analysis”

Rana, Nahyan Muhammad (Earth Sciences)

“Global Study of Tailings Dam Failures by Statistical and Remote Sensing Methods”

Raymond, Neil George (Chemistry)

“Equilibrium and Dynamical Computation Schemes for Vibronic Models of Nonadiabatic Systems”

Reid, Jennifer Anne (Physics)

“Magnetic Excitations in Transport Measurements of Novel Quantum Materials”

Rosales Solano, Hernando Fabian Alonso (Chemistry)

“Solid Phase Microextraction: A Versatile Technique for Lipid Analysis”

Šoda, Barbara (Physics)

“New Aspects of Quantum Interactions: Acceleration-Induced Transparency, Newton’s Cradle Spectra, Superoscillations”

Sombini Dos Santos, Gabriel (Earth Sciences)

“Petrology, Tectonic Setting, and Regional Implications of the Ophiolitic Liuyuan Complex, NW China”

Tamhane, Prathamesh Dhananjay

(Physics)

“Re-Visiting the Radio-Mechanical Feedback in Brightest Cluster Galaxies”

Whittingham, Alexander William Henry (Chemistry)

“A Study of Electrochemically Induced Lattice Distortions in Layered Perovskites”

Yaghoubi, Ali (Earth Sciences)

“Tectonic Stresses and Injection-Induced Fault Slip Assessment”

Yin, Junjie (Physics - Nanotechnology)

“Stable Polymer Glasses”

Zandieh, Mohamad (Chemistry)

“Metal-Mediated Adsorption of DNA Oligonucleotides Onto Polymeric Materials”

Zhong, Shazhou (Physics - Quantum Information)

“Thickness- and Symmetry-Induced Electronic Transport Properties of Semi Metallic Transition Metal Dichalcogenides”

Zhou, Yehao (Physics)

“Twisted Holography: The Examples of 4d and 5d Chern-Simons Theories”

MASTER OF SCIENCE

Anderson, Delaney (Chemistry)

Arabaci, Cemile Senem (Physics)

Bala, Upneet (Chemistry)

Buratynski, Javan Alexander (Chemistry)

Burniston, John Richard (Physics - Quantum Information)

Christ, Margaret Ingrid Patricia (Physics - Quantum Information)

Chytros, Anthony Paul (Physics - Quantum Information)

Foroozan, Setareh (Physics)

Gammon, Michael William (Physics)

Golabek, Andrew (Chemistry)

Hinkle, Zachary Daniel Pittman (Physics - Quantum Information)

Hussein, Omar Aly (Physics - Quantum Information)

Labas, Sarah Rebekah (Chemistry)

Lisogorsky, Ariel (Earth Sciences - Water)

Little, Hunter Thomas (Chemistry)

Manning, Rebekah Katherine (Earth Sciences)

McLeod, Meghan Marie (Earth Sciences - Water)

Mills, Riley Hanson (Earth Sciences - Water)

Nazareth, Boris Peter (Chemistry)

Patterson, Everett Avison (Physics)

Penmetsa, Siddhardha (Physics)

Qi, Yuxuan (Physics)

Ramezanzadeh, Mehdi (Earth Sciences)

Sakuragi, Mai (Physics)

Schietzsch, Andrew Paul (Earth Sciences)

Song, Weixiang (Physics)

Sun, Dongwei (Earth Sciences)

Taylor, Jacob Richard (Physics -
Quantum Information)

Tormann, Alexandra (Chemistry)

Tupkary, Devashish Jayant (Physics -
Quantum Information)

Turner, Sarah (Earth Sciences)

Vogliano, Anthony (Physics -
Quantum Information)

Wei, Quan (Earth Sciences - Water)

Williams, Justine Camilla
(Chemistry)

Worthington, Quinn Noel (Earth
Sciences)

Xian, Rickie Ruixiao (Physics)

Xu, Xiangxuan (Physics)

Zhang, Tingxian (Earth Sciences -
Water)

GRADUATE CERTIFICATE

Tannous, Ramy Nicolas (University
Teaching)

Undergraduate Degrees

BACHELOR OF SCIENCE

HONOURS BIOCHEMISTRY

Adloc, Jessa Grace Gloria

(Biotechnology Specialization – Co-operative Program)

Bagchi, Aparajita (Biotechnology Specialization)

Barnum, Lara Marie (Co-operative Program) *

Bates, Eileen Marie (Biotechnology Specialization – Co-operative Program) †

Chheda, Rikin Nikunj (Biotechnology Specialization – Entrepreneurship Minor – Co-operative Program)

Chiang, Angus Cheuk-Hang (Co-operative Program) *

Clark, Liam James

Cobourne, Zinedine Samuel (Co-operative Program)

Colic, Eva (Co-operative Program) †

Conners, Brett Maxwell Shain (Biotechnology Specialization – Bioinformatics Option – Co-operative Program)

Deng, Ying (Biotechnology Specialization – Co-operative Program) *

Dharmasiddhi, Ida Putu Wiweka (Biotechnology Specialization – Bioinformatics Option – Co-operative Program) †

Donald, Sarah Margaret (Biotechnology Specialization – Co-operative Program) *

Ferhatoglu, Emre (Biotechnology Specialization – Bioinformatics Option – Co-operative Program) *

Fernandez Galliano, Ana Maria (Co-operative Program) *

Fleming, James Alexander (Co-operative Program)

Gandhi, Aastha (Co-operative Program) †

Gere, Alice (Co-operative Program)

Gillespie, Graeme Robert Andrew (Co-operative Program)

Hadas, Nicholas Aziz (Biotechnology Specialization – Bioinformatics Option – Co-operative Program)

Hammond, Sarah Elisabeth (Co-operative Program) †

Hao, Yiming (Co-operative Program)

Howes, Nicole Mitsue (Biotechnology Specialization – Co-operative Program) *

Huynh, Cassandra Bonnie (Bioinformatics Option – Co-operative Program)

Imani, Jacob (Co-operative Program)

Islam, Zujaija (Biotechnology Specialization) †

Jin, Andy (Biotechnology Specialization) *

Kirby, Maxim (Co-operative Program)

Lee, Hannah Felisa (Co-operative Program) *

Li, Albert Zehan (Co-operative Program) †

Ling, Michael (Co-operative Program) *

Lung, Christopher Kar Jun (Biotechnology Specialization – Co-operative Program) †

Ly, Jonathan (Biotechnology Specialization – Bioinformatics Option – Co-operative Program) *

MacAlpine, Connor Romeo Joseph (Co-operative Program)

Marga, Dora-Lynn

Mcarthur, Owen Daniel (Co-operative Program) †

McLeod, Madison (Biotechnology Specialization – Human Nutrition Minor – Co-operative Program)

Miller, Zachary Richard (Co-operative Program) *

Mirza, Haider Abbas (Biotechnology Specialization – Bioinformatics Option – Co-operative Program)

Nahian, Labiba (Biotechnology Specialization – Co-operative Program)

Najmul Hussain, Sidra (Mathematics Minor)

Nguyen, Bao Khanh (Bioinformatics Option) †

Parmar, Mokhash Singh (Biotechnology Specialization – Bioinformatics Option – Co-operative Program)

Qian, Runqi

Ramgoolam, Shubham Devesh (Biochemistry & Joint Honours Mathematics) †

Rashid, Saadat (Co-operative Program)

Roper, Michael Burton (Co-operative Program)

Sahota, Sandeep (Biotechnology Specialization – Co-operative Program)

Shergill, Guntaas Singh (Bioinformatics Option – Co-operative Program)

SHIN, JIYOUNG (Biochemistry & Joint Honours Mathematics) *

Simons, Danielle Marie (Co-operative Program) †

To, David (Bioinformatics Option – Co-operative Program)

Tu, Anqianyi (Bioinformatics Option – Co-operative Program) *

Tudorica, Eileen (Biotechnology Specialization – Co-operative Program)

Webster, Thomas Babiwashe (Co-operative Program)

Westlake, Chloe Pamela (Co-operative Program) *

Xu, Xiaoxiao (Co-operative Program)

HONOURS CHEMICAL PHYSICS

Fischer, Nathan Te'ilo (Co-operative Program)

Monga, Ela Gauri (Legal Studies Minor)

HONOURS CHEMISTRY

Bax, Kate Lindsay (Psychology Minor – Co-operative Program) *

Bissonnette, Justine Rose (Co-operative Program) †

Dayal, Urvi Sudhir

D'Sa, Adrianna (Co-operative Program) †

Elnatour, Chafic (Co-operative Program)

Fantini, Emma Mirella Luigina (Co-operative Program) *

Han, Yutong

* – Distinction

† – Dean's Honours

Hang, Vivian (Co-operative Program) *

Hopson, Hana (Co-operative Program) *

Hussain, Hamza Syed (Co-operative Program)

Ji, Xinrui

Kim, Simon Hyesung (Computational Specialization – Computing Minor)

Klassen, Evan David Johnathon (Philosophy Minor)

Kompter, Audrey Sienna (Psychology Minor, Biology Minor – Co-operative Program)

Lemmens, Shannon Carmel (Co-operative Program)

Li, Guocheng

Li, Katie

Liang, Junwei

Liu, Jiawen †

Ma, Yue Ye

McNeil, Scott William (Co-operative Program) †

Mulley, Brian Paul (Co-operative Program) †

Parkins, Tyler Craig (Computing Minor – Co-operative Program)

Qassim, Sara (Co-operative Program)

Scott, Ryan James (Physics Minor)

Siong Sin, Aurelie Foong-Chin (Computational Specialization – Mathematics Minor – Co-operative Program) *

Suh, Sungwon †

Thiessen, Matthias Jakob Weiler (Co-operative Program)

Tiwari, Drishti (Co-operative Program)

Tocsoy, Koray

Truong, Kenneth Quang Kien (Co-operative Program)

Xu, Haoyang

Yang, Xiaofei

Yeung, Raymond (Co-operative Program)

Yip, Emily (Co-operative Program) *

Zhang, Hanxiao *

Zhang, Yichen

Zhao, Xingya *

Zhong, Akeen

Zhou, Yang

HONOURS EARTH SCIENCES

Chatham, Wesley Arthur (Geology Specialization) *

Cunningham, Olivia (Geology Specialization – Co-operative Program) *

Kerr, Nicholas Dylan (Geophysics Specialization – Co-operative Program) *

Lu, Bowen (Hydrogeology Specialization – Computing Minor)

Mesich, Luka Nickolas (Geology Specialization – Co-operative Program) †

Rudy, Adrian Zachary Penner (Hydrogeology Specialization – Co-operative Program)

Sriharan, Jananee (Geology Specialization – Co-operative Program) *

Tanasoiu, Annamaria (Geology Specialization – Co-operative Program)

Warren, Holly Severin (Hydrogeology Specialization)

Yu, Chunzhong (Geology Specialization)

Zanatta, Corey Michael (Hydrogeology Specialization – Co-operative Program) †

HONOURS ENVIRONMENTAL SCIENCES

Miliya (Geoscience Specialization) *

Agudo, Angelica Marie Pableo (Geoscience Specialization – Economics Minor)

Andrews, Grace Elizabeth (Ecology – Co-operative Program)

Arsenault, Katie Margaret (Geoscience Specialization)

Cao, Xingliang (Water Science Specialization) *

Cassidy, Liam Thomas Weeks (Ecology)

Chen, Haiyang (Water Science Specialization) †

Chen, Saier (Water Science Specialization) †

Chen, Sirong (Water Science Specialization) †

Chessum, Cory Jack (Ecology – Geography and Environmental Management Minor – Co-operative Program) *

Crosby, Estella (Ecology – Co-operative Program)

Decker, Nicholas William (Geoscience Specialization – Co-operative Program) *

Deng, Chicheng (Water Science Specialization)

Fan, Yizhou (Water Science Specialization) †

Frankie, Tyler Joseph (Ecology)

Gan, Yuhao (Water Science Specialization)

Gong, Xuezi (Water Science Specialization) †

Good, Wesley John (Ecology – Earth Sciences Minor)

Gu, Xin (Ecology)

Gu, Xinyue (Ecology)

Han, Zhenghao (Water Science Specialization) †

Han, Ziyang (Water Science Specialization) *

Hausz, Nikita (Ecology – Co-operative Program)

Hu, Jessica (Water Science Specialization)

Hu, Zhiling (Water Science Specialization) †

Huang, Yuehua (Water Science Specialization)

Jia, Yuanyuan (Water Science Specialization) †

Kang, Han Wen (Ecology)

Kokthi, Sarah (Water Science Specialization – Chemistry Minor – Co-operative Program)

Lan, Yixuan (Water Science Specialization) *

Lei, Yuxiao (Water Science Specialization)

Li, Jingyi (Water Science Specialization) *

Li, Kaiyuan (Water Science Specialization)

Li, Tianqi (Water Science Specialization) *

Li, Yixin (Water Science Specialization) †

Liang, Yian (Water Science Specialization)

Liao, Zhenyu (Water Science Specialization)

Lin, Wan Ying (Ecology – Co-operative Program) *

Liu, Di (Water Science Specialization) †

Liu, Yue (Water Science Specialization) †

Liu, Zeyi (Ecology) *

Long, Xiaoqiu (Water Science Specialization) *

Luo, Yixun (Water Science Specialization)

Lyu, Ang (Water Science Specialization)

O'Brien, Brianna Hannah Reader (Water Science Specialization – Co-operative Program) *

* – Distinction

† – Dean's Honours

Pei, Kefan (Ecology)

Peng, Jie (Water Science Specialization) *

Peng, Xiaoyan (Water Science Specialization)

Rachmadsyah, Syifa Azzahra Bidarea (Water Science Specialization – Co-operative Program)

Robertson, Shelby Lynn (Ecology – Co-operative Program) †

Rose, Joshua Garfield (Ecology – Co-operative Program) *

Safiullina, Lilia (Water Science Specialization – Geography and Environmental Management Minor – Co-operative Program)

Song, Jiayi (Water Science Specialization) *

Spizzirri, Gabriel Joseph (Ecology – Earth Sciences Minor – Co-operative Program) *

Sun, Muhan (Water Science Specialization)

Wang, Junqi (Water Science Specialization) *

Wang, Zhuo (Water Science Specialization) *

Wang, Zongyu (Water Science Specialization) *

Wu, Yupeng (Water Science Specialization)

Xiong, Zhexian (Water Science Specialization)

Yang, Xilong (Water Science Specialization) †

Zhang, Catherine Cynyi (Ecology – French Minor – Co-operative Program) *

Zhang, Chao (Water Science Specialization)

Zhang, Dongming (Water Science Specialization) †

Zhang, Yuxuan (Water Science Specialization)

Zheng, Yongqi (Water Science Specialization)

Zhou, Yanqin (Ecology – Co-operative Program) †

Zhou, Yudong (Water Science Specialization)

HONOURS GEOCHEMISTRY

Meinzinger, Shayna Bree (Co-operative Program)

Schulz, Myles Peter (Co-operative Program) †

HONOURS LIFE PHYSICS

Basco, Anna Margarita Ocampo (Medical Physics Specialization – Co-operative Program)

Chan, Shirly Suet-Yee (Medical Physics Specialization – Biology Minor – Co-operative Program) *

Dong, Zhi Fei (Medical Physics Specialization – Bioinformatics Option – Biology Minor – Co-operative Program) †

Farooqui, Mohammad Taha (Co-operative Program)

Graves, Sarah Evelyn Dawson (Biophysics Specialization – Co-operative Program) †

Jay, Jonah Mason (Bioinformatics Option – Co-operative Program)

Lee, Samantha Caitlin (Medical Physics Specialization – Co-operative Program) *

Luckar, Aidan Elizabeth (Medical Physics Specialization – Co-operative Program)

Potsiluienko, Yurii (Co-operative Program) *

Tapper, Sydney Josee (Medical Physics Specialization)

HONOURS MATERIALS AND NANOSCIENCES

Byzalov, Lev

Chen, Mengyang (Mathematics Minor)

Chen, Shuo †

Chen, Yijing *

Dent, William

Gao, Biwen *

Guan, Chaoyu

Hu, Jingxuan †

Huang, Junting †

Jiang, Yuelin *

Jin, Shangkun †

Kang, Yadong

Li, Ao

Li, Jinghan

Li, Meixuan *

Li, Renjia

Li, Shen *

Lin, Weichen †

Liu, Puyuan (Biophysics Minor) *

Liu, Qirui (Computing Minor) †

Liu, Yunfei

Liu, Zitong

Luo, Kun †

Luo, Ma

Pei, Zuofan

Qian, Chengjia *

Qin, Zhihao

Ren, Kaiyang *

Shi, Yiming

Song, Jiaqi (Computing Minor) †

Song, Taoran

Soo, Sebastian Jian Xung (Co-operative Program) †

Sun, Peihuan

Vinci, Jackson Stanley (Chemistry Minor) *

Wang, Xinning †

Wang, Xulai *

Wu, LyuYuan †

Xiao, Yi *

Xing, Cheng (Computing Minor) †

Yan, Yutong *

Yang, Xuqian

Yang, Zheming

Yin, Jiayi †

Ying, Yuanrui

You, Niewei †

Zhang, Liyi *

Zhang, Yaru *

Zhang, Yiyao †

Zhang, Yizhou

Zhang, Zhining †

Zhong, Xiaoyue (Sociology Minor)

Zhou, Hao Nan (Co-operative Program)

Zhou, Kaiwen

HONOURS MATHEMATICAL PHYSICS

Bakshi, Arjun Singh (Astrophysics Minor, Computing Minor – Co-operative Program)

Bashalkhanova, Olga (Astrophysics Minor – Co-operative Program)

Chen, Skye Sondheim Gershwin (Astrophysics Minor – Co-operative Program) †

Chirayath, Rebecca Shajil (Co-operative Program)

Duff, Petra Mary (Co-operative Program) †

Fung, Hin Pok Cyrus (Pure Mathematics Minor) †

Gage, Finnegan Eli (Astrophysics Minor)

Halbertsma, Emrys Gabriel Tjalling

* – Distinction

† – Dean's Honours

Jian, Xiao Luo (Co-operative Program)

Lawrence, Jensen Pierce Thomas
(Astrophysics Minor – Co-operative Program) †

Lyu, Hongliang

Mazey, Cameron

Membrere, Irene James
(Co-operative Program) †

Morawetz, James Gow (Astrophysics Minor) †

Moser, Sarah Toshiko (Astrophysics Minor – Co-operative Program) †

Qualter, Jonathan (Co-operative Program) *

Ravi, Parmesh (Co-operative Program) †

René, David (German Minor, Astrophysics Minor – Co-operative Program)

Schraa, Michael Thomas
(Co-operative Program)

Seaward, Grady Francis

Shah, Ruhi (Pure Mathematics Minor – Co-operative Program) †

Sharma, Varad (Pure Mathematics Minor – Co-operative Program) *

Singh, Gurteg (Pure Mathematics Minor)

Srikantharuban, Kishor
(Co-operative Program)

Terrey, Catherine Anne (Astrophysics Minor – Co-operative Program) †

Virally, Paul (Co-operative Program) *

Zhao, Junle

Zuo, Shen

HONOURS MEDICINAL CHEMISTRY

Bingham, Kenneth John
(Co-operative Program) *

Knaggs, Karlene Laurie Myhal
(Co-operative Program)

Ly, Norman (Biochemistry Minor – Co-operative Program) *

McAlpine, Anika Kimberley-Anne Kathleen (Co-operative Program) †

Mojica, Joshua Alex (Co-operative Program)

Pham, Richard Dinh (Co-operative Program) *

Woods, Riley Thomas (Co-operative Program)

Zhang, Qiyang (Biochemistry Minor – Co-operative Program) †

HONOURS PHYSICS

Ahmed, Yusuf (Astrophysics Minor)

Bian, Boyan

Brenner, Thomas Owen
(Mathematics Minor, Astrophysics Minor – Co-operative Program) †

Cat, Michael Thai (Co-operative Program)

Cheng, Cheng (Astrophysics Minor)

Cornick, Elena Rose Willett
(Co-operative Program) †

Dyment, Delaney Leigh
(Co-operative Program) *

Follett, Callum Alexander

Hirano, Joshua Mitsuo
(Co-operative Program)

Johnston, Nolan Anthony Paul
(Biophysics Minor – Co-operative Program)

Lahiouel, Hichem (Co-operative Program)

Li, Yifan *

Liu, Ruolin *

Peters, Cameron Emil (Mathematics Minor – Co-operative Program)

Rutherford, Jayden Harrison William

Suthendran, Shivam

Villalba Alemán, Geovanny Valentín

Voora, Sakethram (Physics & Joint Honours Mathematics)

Wheatle, Jordan Lloyd (Co-operative Program)

Zhou, Jiayuan

HONOURS PHYSICS AND ASTRONOMY

Aamir, Azzam Bin (Co-operative Program) †

Aikens, Megan Elizabeth
(Co-operative Program)

Barré, Ruxin Daphne (Mathematics Minor – Co-operative Program) †

Barton, Rachel Annamaria
(Co-operative Program) *

Bayat, Nouralhoda

Chander, Suhail (Physics and Astronomy & Joint Honours Mathematics – Co-operative Program) *

Defend, Xander Douglas

Doshi, Dhvani Chetan (Co-operative Program) †

Forrester, Sabrina Isabella
(Co-operative Program)

Ghosal, Tanisha (Mathematics Minor – Co-operative Program) *

Gupta, Ridhee (Computing Minor – Co-operative Program)

Hedley, Kohl Gregory James
(Co-operative Program) †

Hermez, Andy

Hyatt, Benjamin William Andrew
(Co-operative Program) †

Issa, Joshua (Philosophy Minor – Co-operative Program) *

Kavanagh, Hayley Michaela Shannon
(Mathematics Minor – Co-operative Program)

Klys, Michael Jan (History Minor – Co-operative Program)

Ko, Graeme Grant (Biophysics Minor – Co-operative Program)

Lepage, Renée Juliette
(Co-operative Program)

Nguyen, Chi Nguyen

Ormen, Alp Kaan (Co-operative Program)

Pacholko, Taylor Rae (Co-operative Program) *

Pappur, Thrishal Reddy
(Co-operative Program)

Paquette, Olivier (Co-operative Program) *

Patel, Darshak Atul (Co-operative Program) †

Rodrigues, Serene Francis
(Co-operative Program)

Rourke, Sarah Alexandra (Fine Arts Studio Minor – Co-operative Program) *

Russell, Stephen

Schweintle-Stewart, James Alexander
(Computing Minor)

Sow, Maimouna

Suri, Shubhang (Co-operative Program)

Tang, Chen

Tathed, Gaurav Ashish (Co-operative Program) *

Vilcacundo Tulcanaza, Andrea Carolina *

Wright-Mellone, Dylan (Co-operative Program)

Xu, Angqing

HONOURS SCIENCE

Abdulle, Omar Mukhtar (Biology Minor) *

Ambrose, Lexi Brae (Biology Minor, Psychology Minor)

Bains, Komalpreet Kaur (Biology Minor)

Bains, Sagar Singh (Biology Minor) †

Bednarchik, Nicole Gabriella
(Psychology Minor, Biology Minor) †

Bertrand, Laura (Biology Minor, Psychology Minor)

Bhangu, Simran (Medical Physiology Minor) †

* – Distinction

† – Dean's Honours

Bhatla, Sonali Sunil

Bhullar, Rabab (Biology Minor)

Bunha, Miral Rasikbhai (Biology Minor, Psychology Minor) *

Cambu, Lee Cader (Biology Minor, Political Science Minor)

Chaudhry, Saad Anwar (Bioinformatics Option – Chemistry Minor)

Chaytor, Sarah Emma Elizabeth (Biology Minor, Economics Minor)

Chen, Yuxiang

Cheng, Clifton

Cho, Julie (Medical Physiology Minor, Biology Minor)

Choe, Jonathan Eugene (Bioinformatics Option – Biology Minor) †

Chow, James Hoyin (Biology Minor)

Clancy, Burak Patrick

Crawford, Braydon Mackenzie *

Cucci, Michela (Fine Arts Studio Minor, Biology Minor) *

Cunningham, Julia Taylor (Biology Minor, Psychology Minor) *

De Ciancio, James Thomas (Biology Minor)

Denomme, Jenna Alyssa (Biology Minor, Psychology Minor) †

Denomme, Jordan Stanley

Dhaliwal, Kareena (Biology Minor)

Dhanju, Manraj (Biology Minor)

Dorcich, Megan (Biology Minor, Psychology Minor) †

Eid, Seema (Biology Minor)

Furgal, Caitlin Anne (Bioinformatics Option – Biology Minor, French Minor)

Furtado-Crannie, Courtney Anne (Biology Minor, Chemistry Minor, Sociology Minor)

Gan, Tian (Psychology Minor)

Gao, Ye

Garzon Llanos, Valentina Paola (Biology Minor) *

Gayne, Ethan Daniel (Psychology Minor, Chemistry Minor, Biology Minor) *

Ghiasi, Romina (Science & Joint Honours Psychology – Biology Minor)

Giesen, Sarah Elizabeth Katrina

Gill, Puneet (Biology Minor)

Gill, Tajpreet Kaur (Biology Minor, Geography and Environmental Management Minor)

Gu, Wenjun (Mathematics Minor, Biology Minor) *

Guo, Vincent (Biology Minor, Chemistry Minor) †

Hallam, Julia Anne (Biology Minor)

Handy, Robyn Elizabeth (Biology Minor)

Hanson, Mark Steven (Biology Minor)

Hansra, Jashan Singh (Biology Minor)

Hasan, Saad Mohammed (Biology Minor, Psychology Minor)

Hua, Anna Thanh Nhan (Biology Minor, East Asian Studies Minor) *

Imrie, Reis Alexandra (Biology Minor, Management Studies Minor)

Ith, Laura Sotheara (Biology Minor)

Jamali, Wagma

Javaheri, Kousha *

Jayandan, Amshula (Biology Minor, Psychology Minor, French Minor)

Jewett, Emma Jane Llewelyn (Earth Sciences Minor)

Joshi, Aishwarya (Science & Joint Honours Economics – Physics Minor)

Kang, Eric (Biology Minor) †

Karklins, Andrew David

Kereliuk, Allison Jane (Chemistry Minor, Psychology Minor) *

Khalid, Marria (Biology Minor) †

Khan, Anisa Tsering (Biology Minor, Psychology Minor)

Khan, Hasseb Ali (Biology Minor) †

Killins, Ashley Faith (Astrophysics Minor)

Kim, Seungwan

Kobaner, Binnaz Ece (Biology Minor)

Kwan, Alexa Carolyn (Biology Minor, Psychology Minor)

Lalchandani, Geetu (Biology Minor) *

Lam, Davis Lok Ching (Biology Minor) *

Lam, Tyler †

Lammel, Kayley (Biology Minor) †

Langlois, Emma Michelle

Le, Kim Bao

Li, Kevin Xutong

Li, Victor (Chemistry Minor)

Liang, Sandy (Medical Physiology Minor) †

Limanta, Natasya Nadia (Biochemistry Minor)

Lin, Kelly Yasi

Lui, Ming Wai Ashley (Biology Minor, Chemistry Minor)

Lyu, Yanqi (Biology Minor)

MacDonald, Curran Conrod (Earth Sciences Minor, Biology Minor) *

MacDonald, Jane Mia (Biophysics Minor, Computing Minor) *

Mahajan, Mahika *

Maiurro, Madison Rose (Biology Minor)

Mehani, Marly Mounir (Biology Minor) †

Merali, Sahil Ali

Mesman, Bennett Cameron (Biology Minor)

Mohammed, Azharuddin Alfaz Sarfraz (Chemistry Minor)

Moorkoth Nellikkal, Vyshnav (Biology Minor)

Ng, Ka Tie (Biology Minor)

Ngan, Hillary (Biology Minor, Mathematics Minor) *

Obiha, Blossom Chukwudumebi (Medical Physiology Minor)

Oh, Erin Chae Eun (Chemistry Minor, Psychology Minor, Biology Minor) †

Oleskiewicz, Natalia (Biology Minor, History Minor) *

Patel, Hawa (Biology Minor, Sociology Minor) †

Patel, Vidhi (Biology Minor) †

Pun, Hazel Sigrid

Qi, Kevin (Biology Minor)

Ramgarib, Kavita (Medical Physiology Minor, Earth Sciences Minor)

Rocca, Julianna Christine (Science & Joint Honours Psychology – Biology Minor)

Sabonjian, Natalie *

Safi, Zahra Farida (Biology Minor)

Samra, Rose (Medical Physiology Minor, Studies in Islamic and Arab Cultures Minor) †

Sauve, Grace Marie (Biology Minor) †

Servellon, Carlos Roberto (Biology Minor)

Sharif, Alisha

Shen Cao, Jenny Lixian (Biology Minor) †

Shienh, Gurveer Singh (Bioinformatics Option – Chemistry Minor)

Sivananthalingam, Vinujen (Bioinformatics Option – Biology Minor) *

Sood, Abhishek (Biology Minor) *

Su, Camila (Biology Minor)

Sue, Meghan Alicia

Sumitharachchige Don, Saduni Udeesha (Biology Minor) *

Syed, Shaza Kamal (Biology Minor, Psychology Minor)

* – Distinction
† – Dean's Honours

Tran, Cindy Thanh (Human Nutrition Minor, Biology Minor) *

Tsao, Madelan Kwei-Ling

Ung, Samantha (Medical Physiology Minor) *

Uppal, Manrohit Singh (Biology Minor)

Vo, Tri Anh Brian (Biology Minor)

Weiler, Kevin John (Chemistry Minor, Biology Minor)

Xue, Queenie

Xue, Ruixuan (Biology Minor)

Yang, Yue Han

Yasmin, Syeda Lamia (Biology Minor, Economics Minor)

Yau, Aaron Ming Fai

Zhang, Eileen

Zhao, Addison Yide

Zhu, Rui (Biochemistry Minor)

Zonis, Danielle (Geography and Environmental Management Minor, Biology Minor) *

HONOURS SCIENCE AND AVIATION

Ajith, Abhijith (Earth Sciences Minor) †

Collins, Zachary Robert Luis

Gan, Oscar Yuecheng (Earth Sciences Minor) *

Goulbourne, Tiffany Grace (Chemistry Minor) *

Gu, Andrew (Earth Sciences Minor)

Hudspeth, Jacob Edward (Earth Sciences Minor)

Jing, Tyler Tailai (Earth Sciences Minor) †

Lai, Jacob †

Levytsky, Maksym

Rahman, Abdul (Earth Sciences Minor)

Sandhu, Gurkirat Singh (Earth Sciences Minor)

Weisberg, Jeremy Parker (Chemistry Minor) *

Zheng, Wenjun (Earth Sciences Minor)

DIPLOMA IN CHINESE LANGUAGE I

Su, Camila

DIPLOMA IN ECOLOGICAL RESTORATION AND REHABILITATION

Andrews, Grace Elizabeth

Crosby, Estella

Hausz, Nikita

Rachmadsyah, Syifa Azzahra Bidarea

Robertson, Shelby Lynn

DIPLOMA IN ENVIRONMENTAL ASSESSMENT

Agudo, Angelica Marie Pableo

Gupta, Ridhee

Kokthi, Sarah

Robertson, Shelby Lynn

DIPLOMA IN FRENCH LANGUAGE I

Vilcacundo Tulcanaza, Andrea

Carolina

DIPLOMA IN JAPANESE LANGUAGE I

Hua, Anna Thanh Nhan

Ng, Ka Tie

DIPLOMA IN SUSTAINABILITY

Gupta, Ridhee

Safiullina, Lilia

CERTIFICATE IN CO-OPERATIVE EDUCATION IN RESEARCH

Fantin, Emma Mirella Luigina

Membrete, Ireneo James

Robertson, Shelby Lynn

Washington, Zofia Joy

CERTIFICATE IN EXPERIENTIAL EDUCATION

Ahmed, Yusuf

Baral, Neeharika

Becerra, Maria Paz

Furtado-Crannie, Courtney Anne

Imrie, Reis Alexandra

Khalid, Marria

Mahajan, Mahika

Ramgarib, Kavita

Shen Cao, Jenny Lixian

Vilcacundo Tulcanaza, Andrea

Carolina

* – Distinction

† – Dean's Honours



AFTERNOON CEREMONY

Degrees and diplomas from:
UNIVERSITY OF WATERLOO
FACULTY OF SCIENCE

Graduate Degrees

DOCTOR OF PHILOSOPHY

Alkabbani, Wajd (Pharmacy)

“The Associations Between Insulin, Hypoglycemia, and Dementia: Combating Threats to Internal Validity in a Series of Population-Based Cohort Studies”

Bose, Susmita (Vision Science)

“Fabrication of an Enzyme Responsive Biomaterial for the Treatment of Recurrent Corneal Erosion”

Dowling, Nicole Victoria (Biology)

“A Structural Investigation of Novel Fungal Polyglycine Hydrolases”

Heath, George Alexander (Biology)

“Development of Protein Level Cytokine Assays and Assessment of the Impact of Implanted Acoustic Telemetry Tags on the Rainbow Trout (*Oncorhynchus mykiss*) Immune System”

Huang, Jiahao (Pharmacy)

“In-Solution and Physical State Properties of Polymer and Lipid Excipients and Their Effects on the Supersaturation Evolution of Poorly Water-Soluble Drugs”

Johnson, Lisa Anne (Biology)

“Microbial Composition and Functional Diversity in Waste Environments”

Mohammed, Wathiq Jassim

(Biology)

“Development and Application of Periphyton-Based Biomonitoring Methods to Elucidate Aquatic Ecosystem Responses of Lakes in a Water-Rich Northern Landscape (Old Crow Flats, Yukon, Canada) to Climate Change”

Robinson, Morgan (Pharmacy)

“The Interplay Between the Neuronal Plasma Membrane and Cell Signaling in Alzheimer’s Disease”

Sunga, Julia Carmen (Biology)

“The Role of Social Preferences in the Organization of a Gregarious Mammal Colony”

Yeung, Cindy Hoi Ting (Pharmacy)

“Pediatric Physiologically Based Pharmacokinetic (PBPK) Modeling to Advance Knowledge of Breastfeeding Infant Exposure to Maternal Medications”

Yu, Jacky Ka-Hei (Pharmacy)

“Pharmacokinetic and Economic Implications When Switching Between Hemophilia A Treatments”

Yun, Yejin (Pharmacy)

“Development of a Framework for Identifying Critical Input Parameters for Effective Pediatric PBPK/PBTK Modelling”

MASTER OF SCIENCE

Aragón Baquero, Lina Marcela

(Biology)

Baker, Emily Danielle (Biology)

Breadner, Patrick Raymond

(Biology - Water)

Collis, Cody (Biology)

Domashinski, Gwynne (Biology)

Ellmen, Isaac Agnew Overend

(Biology)

Hodgins, Harold Paul (Biology)

McAllister, Keith Steven (Biology)

McLay, Sean (Biology)

Ng, Andrew Ka Yiu (Pharmacy)

Pushparajah, Deborah Grace

Dhamayanthi (Pharmacy)

Quinn, Rebecca Sydney (Biology)

Teodoro, Juliette Isabel (Vision

Science)

Thibault, Hannah Jane (Biology)

GRADUATE CERTIFICATE

Amoud, Razan (University Teaching)

Filice, Carina Teresa (University Teaching)

Firth, Britney Lynn (University Teaching)

McKnight, Michelle Marie (University Teaching)

Undergraduate Degrees

BACHELOR OF SCIENCE

GENERAL SCIENCE – THREE YEAR

Ali, Nazia Sajid

Bardell, Cameron Drake

Bhandal, Navreet Kaur

Ciftci, Koray

Deng, Sunny Y (Psychology Minor)

Desrocher, Claire Elizabeth (Biology Minor) †

Dhugga, Sunjum Kaur

Dolcine, Kimberly Margarete

Gray, Lachlan Flynn Eyman (Physics Minor) *

Grovera, Jasjeet Kaur Saene †

Hamdavi, Ayman (Earth Sciences Minor, Geography and Environmental Management Minor)

Ho, Wing Fung Rafi

Isaac, Claudia (Biology Minor) *

Krishnakumar, Saumiyaa (Biology Minor)

Lail, Rajveer Kaur (Legal Studies Minor)

Leung, Nathan Lap-Tuen

Li, Chenze

Mathan, Jason

Maung, Matthew Zarni

McGarry, Haig Stephen (Physics Minor)

Menendez-Garcia, Samuel Alejandro *

Mittal, Kashish

Mobayed, Gamar (Biology Minor) *

Moutafova, Mira

Pasumarthy, Venkateswara Pranav

Ratnani, Neeraj

Rivers-Garcia, Ethan Gabriel

Selliah, Manish

Smith, Calvin Whittaker (Classical Studies Minor)

Tang, Zhiyi

Wang, Rui Qi (Mathematics Minor)

Wiseman, Noah (Psychology Minor)

Zaheed, Ahamed Razeen (Legal Studies Minor)

Zheng, Marina Xixin (Biology Minor) †

HONOURS BIOLOGY

Ali, Aisha Abdullahi †

Andress, Samuel Jacob (Microbiology Specialization)

Arends, Melissa Kate (Biotechnology Specialization – Co-operative Program)

Banaag, Jaden Rose (Co-operative Program)

Beatty, Janel Erin (Molecular Genetics Specialization – Co-operative Program) †

Biram, Hadeel Raid (Co-operative Program)

Bobb, Rachel Nicole (Co-operative Program)

Carpani, Justin Mark (Microbiology Specialization – Co-operative Program) †

Chan, Alexander (French Minor)

Chandrasekharapuram Kasi Viswa, Mahalekshmi (Psychology Minor – Co-operative Program) †

Duval, Mitchell David Robert (Applied Language Studies Minor)

Epp, Hayden (Environmental Biology Specialization – Psychology Minor – Co-operative Program) †

Foley, Melanie Marie (Co-operative Program)

Fox, Andrew James Fraser (Biotechnology Specialization – Co-operative Program)

Gallo, Hannah Kathryn (Medical Physiology Minor, Psychology Minor) *

Giurasevici, Alicia (Medical Physiology Minor)

Go, Kristoff Jean †

Go-Ho, Kiara Maxine (Medical Physiology Minor – Co-operative Program) *

Hans, Jasreen (Medical Physiology Minor)

Hines, Meaghan Suzanne

Holdenried, Sarah Claire †

Hsieh, Ming Hsun (Environmental Biology Specialization – Co-operative Program)

Jamshed, Shanza (Microbiology Specialization – Co-operative Program)

Jeevarajah, Shayaki

Karim, Kellie Meghan (Management Studies Minor)

Khater, Diana (Biotechnology Specialization – Bioinformatics Option – Co-operative Program) *

Lanteigne, Jonathan George (Catholic Studies Minor)

Lee, Eunseo (Co-operative Program) *

Lo, Melanie *

Logarajah, Aswin

McDonald, Gillian Maria (Co-operative Program)

McPherson, Sara R (Molecular Genetics Specialization – Co-operative Program)

Meighoo, Melissa Savita Ramona (Co-operative Program)

Miles, Adam Yuen (Psychology Minor – Co-operative Program)

Mohabir, Stephanie Leah (Microbiology Specialization)

Nagy, Alyssa Nicole (Molecular Genetics Specialization)

Nandakumar, Shankavi (Economics Minor – Co-operative Program) *

Ng, Bonar Wai-Bond (Computing Minor)

Or, Locke

Pablay, Kamalvir Singh †

Panoulis, Nicolette Irene (Environmental Biology Specialization – Economics Minor)

Patel, Shreya Dipakbhai

Pathmanathan, Harishia (Medical Physiology Minor – Co-operative Program) †

Peters, Kira Nicole Unger (Co-operative Program) †

Rogozynski, Noah Peter †

Sasitharan, Ambikai (Computing Minor)

Serravalle, Erika Ann (Co-operative Program) *

Sinanos, Lodi Maria (Co-operative Program)

Singh, Siddharth (Co-operative Program)

Sivagunalan, Vahesan (Co-operative Program)

* – Distinction

† – Dean's Honours

Sriram, Aadhira
Stoicoiu, Elisa Ioana (Bioinformatics Option)
Stragapede, Elena Jessica (Animal Biology Specialization) †
Tan, Sophia (Co-operative Program)
Tarakji, Joseph Pierre (Bioinformatics Option)
Tastassa, Ariel (Bioinformatics Option – Co-operative Program) †
Tello Yepes, David Felipe (Microbiology Specialization – Biochemistry Minor – Co-operative Program) *
Thompson, David Tobias (Plant Biology Specialization – Co-operative Program)
Tran, Lisa (Medical Physiology Minor – Co-operative Program) *
Velu Sundaralingam, Nitharshani (Plant Biology Specialization – Psychology Minor)
Villarreal Boada, Melissa Alejandra (Biotechnology Specialization)
Wiersma, Matthew Liam
Wolf, Jessica Leann (Co-operative Program) *
Wong, Becky (Co-operative Program)
Woollard, Spencer Westley Constable (Biotechnology Specialization – Co-operative Program)
Yang, Ji (Bioinformatics Option) †
Yang, Krystal Xin (Co-operative Program)
Yang, Yu Qian (Co-operative Program) †
Yoon, Jung Won
Zhou, Matthew *
Zhou, Siyu (Psychology Minor)

HONOURS BIOMEDICAL SCIENCES

Abdelkader, Ahmed (Medical Physiology Minor) †
Abrar, Mohammad Mahdi *
Abu Kuwaik, Noor †
Adeyemi, Olufunminire Adebukunola
Akanni, Oluwadurotimi Wilson †
Alsakani, Afnan (Medical Physiology Minor, Anthropology Minor)
Alshehabi, Yasmeen (French Minor, Psychology Minor, Medical Physiology Minor) †
Andonian, Natalie Anna †
Bains, Justin Singh *
Berends, Conor William
Bidarkar, Ashita †

Boston, Camryn Mackenzie †
Bradley, Mya Michelle (Psychology Minor) *
Brar, Bikram Singh (Medical Physiology Minor) *
Cai, Benny Yong Hui
Chong, Relena Sarah †
Clarke, Janelle Kimone (Medical Physiology Minor) *
Cristea, Linda *
Dayoub, Maya (Medical Physiology Minor)
Deosaran, Nicholas Shiva
Devolder, Natalie Anne
Dhaliwal, Jaskirat *
Dhaliwal, Shelly *
Díaz Ortiz, Nicole Carolina (Medical Physiology Minor)
Fan, Jonathan Jingyuan †
Flanagan, Kate Rosemary (Human Nutrition Minor) †
Ghauri, Saif Uddin (Medical Physiology Minor)
Ghotra, Mahima Kaur
Gill, Deep Armaan Singh
Gobburu, Vaishnavi Mohana
Gopaul, Rashmi
Guan, Jinhong (Psychology Minor, Medical Physiology Minor) *
Guest, Jocelyn Marie
Haladuick, Rachael Shannon (Psychology Minor) †
Halim, Arshi (Medical Physiology Minor)
Hall Elwood, Ruby (Psychology Minor) *
Herrera Contreras, Brittany Alexandra (Computing Minor) †
Ho, Amy Thanh *
Hoang, Michael Duy
Hoxha, Jessica †
Huang, Zi Yi †
Hui, Lok Yew Chloe
Huseljić, Denis †
Iancu, Rebeca (Computing Minor) *
Imran, Ahmed Mohammad †
Jeffery, Curtis Glenn *
Kandias, Annamaria (Biophysics Minor)
Karanassios, Alexandros †
Krairojananan, Atchareeya (Medical Physiology Minor, Psychology Minor)

Lakhi, Sabiha †
Li, Leo
Li, Xinyue †
Lif, Autumn Kathleen (Medical Physiology Minor) *
Li-Yim-Feng, Jenna Meryl (Mathematics Minor, Chemistry Minor) †
Lo, Chak Nam *
Lu, Ivy Oi-Yee †
Macci, Sumayyah (Medical Physiology Minor)
Magyar, Mitchell Lightfoot
Mascarenhas, Shyan (Psychology Minor) *
Mendes, Shaelie Cianna Mary
Mendez, Sarah Victoria (Human Resources Management Minor, Medical Physiology Minor) *
Miners, Allison Diane
Mir, Iman Mumtahina (Medical Physiology Minor) *
Nagra, Jatinderjit Kaur (Medical Physiology Minor) *
Noble, Drewcila Lea (Medical Physiology Minor, Psychology Minor) *
Oh, Sebin (Medical Physiology Minor)
Ovalekar, Raoul Rajesh †
Pablo, Ashley Jade (Medical Physiology Minor) *
Palaparty, Srinija (Bioinformatics Option – Medical Physiology Minor, Psychology Minor) *
Pamidimukkala, Mayura †
Patel, Karan †
Patel, Sneha Mayur (Human Resources Management Minor, Psychology Minor) *
Peia, Michael Ioan
Pirhonen, Kyla Anne *
Rana, Ramal Iftikhar (Human Nutrition Minor)
Roostan, Abtin †
Sabo, Emma Grace (Psychology Minor) †
Salas, Ethel Maeryn †
Sandhu, Pavneet Kaur (Medical Physiology Minor)
Schmidt, Chloe Diane †
Sennaoui, Sara (Legal Studies Minor)
Sethupathy, Sri Akshaya (Medical Physiology Minor) †
Shaik, Rehan *
Sigler, Marissa Nicole (Medical Physiology Minor)

* – Distinction

† – Dean's Honours

Spitzl, Noah Christian (Medical Physiology Minor, Chemistry Minor) †

Stewart, Mary Ainsleigh (Psychology Minor, Medical Physiology Minor) *

Stojić, Vanessa (Medical Physiology Minor) *

Syed, Hiba (Management Studies Minor)

Szerwinski, Natalie Alice (Biomedical Sciences & Joint Honours Psychology – Research Intensive Specialization)

Taugher, Katherine Grace

Thandi, Joshdeep Singh (Medical Physiology Minor)

Thevasenan, Sharanya (Medical Physiology Minor, Human Resources Management Minor) *

Tian, Joanie (Biomedical Sciences & Joint Honours Mathematics)

Trajceska, Liliana (French Minor) †

Truong, Anson Wa *

Tsui, Oscar Ho Yiu

Upton, Isabelle (Medical Physiology Minor)

Uy, Ryan Christopher Balancio (Psychology Minor) †

Vargas Andrade, Johanna Carolina (Medical Physiology Minor)

Vu, Chi My

Worsdell, Kaitlyn (Chemistry Minor) †

Wu, Conan (Medical Physiology Minor) *

Yaseen, Aseid

Zafiriz, Eudoxia (French Minor)

Zeng, Xiaojun

Zhang, Jingshu *

HONOURS BIOTECHNOLOGY/ CHARTERED PROFESSIONAL

Chaug, Geoffrey Ching Fai (Co-operative Program)

Jacob, Sneha Susan (Co-operative Program)

Lee, Martin Kachun (Co-operative Program)

Morris, Catherine Jane (Co-operative Program) *

Pong, Matthew (Co-operative Program) *

Wan, Meagan Man Yan (Co-operative Program) †

HONOURS BIOTECHNOLOGY/ ECONOMICS

Cheng, Ethan Yu Hin (Co-operative Program)

Dong, Emily (Co-operative Program)

Jung, Dahyeon (Co-operative Program) *

Morin, Elizabeth Anne (Co-operative Program)

Novillo Morán, Ángel David (Co-operative Program) †

Ou, Yuetong (Co-operative Program)

Puranik, Aman Vivek (Co-operative Program)

Wong, Julianne Tan (Co-operative Program) *

HONOURS PSYCHOLOGY

Al-Ghannam, Ghazal (Biology Minor – Co-operative Program) *

Baral, Neeharika *

Becerra, Maria Paz (Biophysics Minor) †

Budge, Joshua Rafe Campbell (Co-operative Program) *

Bumra, Kiran Kaur *

Chowdhury, Nabilah †

Chuong, Jerika Weisum Park (Co-operative Program) *

Cyr, Emily Michelle (Biology Minor) †

Dash, Kasturi

D’Gama Rose, Aliyah Sitara (Biology Minor – Co-operative Program) †

Dhode, Isha *

Duong, Christine (Co-operative Program) †

Gammag, Kyla Denise Edu *

Garth, Kristina Anne Melissa (Biology Minor – Co-operative Program)

Hamid, Madiha Bano (Co-operative Program)

Hamilton, Ian Fraser Rinko (Biology Minor)

Haroon, Abida (Human Resources Management Minor, Biology Minor)

Karmakar-Johnson, Maya †

Kuwar, Anushka Ashish (Biology Minor, Legal Studies Minor – Co-operative Program) †

Kwak, Gyeongwon †

Leung, Yuk Hei †

Manohar, Hannah Maria (Biology Minor – Co-operative Program) *

Mitchell, Ryan William *

Mustafa, Laith Abdel Hadi Awad (Biology Minor)

Olaleye, Oladimeji Solomon (Co-operative Program) *

Omdara, Jacqueline (Co-operative Program)

Parray, Mehnoor Jehangir (Biology Minor) *

Patel, Brinda (Human Resources Management Minor, Biology Minor – Co-operative Program)

Rachmadita, Christina (Bioinformatics Option – Co-operative Program) †

Salikhov, Arslan (Bioinformatics Option – Co-operative Program)

Thomson, Helen Julia (Medical Physiology Minor – Co-operative Program) †

Un, Suevin †

Wang, Sirui (Bioinformatics Option – Co-operative Program) *

Washington, Zofia Joy (Biology Minor – Co-operative Program) †

White, Nicholas Christopher (Biology Minor – Co-operative Program) †

Wicaksana, Namira Dani (Biology Minor – Co-operative Program) *

Wilkinson, Leslie Ada (Biology Minor)

Yan, Yuxin (Bioinformatics Option – Biology Minor – Co-operative Program) †

Yin, Li (Biology Minor)

HONOURS SCIENCE AND BUSINESS

Aboulhoda, Souhail Mouhannad (Co-operative Program)

Afridi, Minahil (Biology – Co-operative Program)

Ahmed, Dua Jawad (Co-operative Program) *

Ali, Adiba (Co-operative Program)

Arumaithurai, Vithun

Asif, Ayesha (Biology – Co-operative Program)

Babulal, Zachary Kishan Etan (Biology – Co-operative Program) †

Badakhshan, Sophia (Biotechnology – Co-operative Program)

Chakma, Shannon (Co-operative Program)

Chekhovtsov, Vlas (Chemistry – Economics Minor – Co-operative Program)

Chen, Xiaoxiao (Economics Minor)

Chisholm, Neil Alexander (Chemistry – Economics Minor – Co-operative Program)

Cookson, Katelyn Brianna (Chemistry – Economics Minor – Co-operative Program) *

De Lorenzi, Martina Alejandra (Co-operative Program) †

* – Distinction

† – Dean’s Honours

Dewan, Jagrit (Biotechnology – Co-operative Program) *

Dicastrì, Nathan Phillip (Chemistry Minor)

Drago, Andia (Co-operative Program)

Fayaz, Leyla Fatma (Co-operative Program)

Fingado, Marisa Carolyn (Biochemistry – Co-operative Program) †

Ghuman, Nipinder Kaur (Co-operative Program)

Grewal, Jazleen (Economics Minor – Co-operative Program)

Ha, Jennifer (Biology – Co-operative Program) *

Hsu, William (Chemistry – Economics Minor – Co-operative Program)

Janendran, Kishanthan

Khera, Puneet (Biology – Economics Minor – Co-operative Program)

Knezic, Sonja (Biotechnology)

Lai, Sheldon Ying-Lin (Earth Sciences Minor – Co-operative Program) *

Leong, Jackson (Earth Sciences – Economics Minor) *

Li, Runze

Liang, Zhanming (Physics Minor)

Liu, Jianguyan (Economics Minor) *

Liu, Sanon (Co-operative Program)

Mahendrarajah, Thulasi (Co-operative Program)

Manivannan, Ludshiya Shalini (Biotechnology – Human Resources Management Minor, Economics Minor – Co-operative Program) *

Meraj, Maheen

Muniz Simas, Carolina Marega (Biochemistry – Co-operative Program)

Nandeesh, Nikhita (Biotechnology – Co-operative Program) *

Nazarowicz, Victor

Nguyen, Celine Quynh Nhu (Co-operative Program)

Opia-Evans, Naomi Chisome (Biochemistry – Co-operative Program) *

Ozaki, Ngawang Loden Kenji (Earth Sciences Minor – Co-operative Program)

Paiwand, Sulaimon Ali (Co-operative Program)

Piao, Jiaoying

Ravichandran, Riyanitha (Biology – Co-operative Program)

Ravinthiran, Ravicha (Biology Minor, Economics Minor) *

Reidner, Talon Scott (Physics – Economics Minor – Co-operative Program) *

Rezakarimi, Maryam (Economics Minor, Biology Minor) †

Sahota, Simranpreet Kaur

Samuel, Sefonias (Chemistry – Co-operative Program) *

Sarmiento, Leila Denise (Co-operative Program)

Saskin, Tamar Rachel (Chemistry Minor, Economics Minor – Co-operative Program) *

Shams, Shayan Nadeem (Biochemistry – Co-operative Program) *

Shaw, Gillian (Economics Minor – Co-operative Program)

Sokalski, Adriana (Co-operative Program)

Staub, Emily Frances (Biology – Co-operative Program)

Suresh, Ambarish (Biotechnology – Co-operative Program)

Tan, Kelly (Environmental Sciences – Biology Minor – Co-operative Program) *

Thayaparan, Abinaya (Co-operative Program)

Tran, Anthony (Science and Business/Biotechnology & Joint Honours Economics – Co-operative Program) *

Tse, Elizabeth Jocelyn (Biology – Economics Minor – Co-operative Program) *

Tyagi, Anoushka (Biology – Economics Minor) *

Valeri, Sabrina Isabella Kaur (Biology) †

VanderVelde, Jillian Johanna M (Economics Minor, Earth Sciences Minor – Co-operative Program) *

Varshney, Satvik (Physics – Co-operative Program)

Vasandani, Vidhi Mukesh

Virani, Aman (Biotechnology – Economics Minor – Co-operative Program) *

Vushaj, Angel (Co-operative Program)

Wang, Zi Hao (Co-operative Program)

Wu, Ziyi †

Yağcı, Ezgi

Yu, Michael (Economics Minor, Computing Minor – Co-operative Program) *

Zhang, Jie Yi (Co-operative Program) †

DOCTOR OF OPTOMETRY

Ahmed, Tazeen *

Alliston, Mary-Katharine Ann *

Bansal, Aashna *

Beauchamp, Breanne Taylor †

Bendall, Cassandra Christine †

Boehr, Meagan Justina †

Braham, Jenna †

Brawdy, Molly Gabriella Jean *

Chan, Tiffany Yik Tung †

Chang, Claudia *

Cheng, Clifton †

Choi, Maria Harmony Holy †

Chow, Clement Chi Hin *

Chow, Timothy Gok Hung *

Chow, Winnie Wing Yin *

D'Angelo, Sarah Megan †

De Marinis, Jessica Danielle †

Deng, Ivy Deyi †

Denomme, Jordan Stanley †

Fonseca, Manuela *

Germain, Peter George †

Graves, Christopher Brian †

Gunasekaran, Selah Lizanne †

Gupta, Isha *

Hackner, Charlotte Sarah *

Hellinga, Michaela Katherine *

Holms, Julie Patricia Marie *

Hong, Alvin †

Howorth, Katelyn Anne *

Huynh, Regan Pei-Yu *

Kamphuis, Alexandra Joy †

Karklins, Andrew David †

Kwon, Whijin †

Langlois, Emma Michelle *

Le, Kim Bao *

Lee, Jenny †

Leitao, Filipa Da Silva †

Letwinetz, Kristen Nicole †

Li, Kevin Xutong †

Li, Ziqing †

Lin, Kelly Yasi †

Lin, Tina Nuo Ja †

Lin, Vanessa Xuwen †

Liu, Anjingyao †

Lo, Bethany Pui-Hei †

Loughran, Pamela Christine †

Marciano, Ralph Vincent *

McMillan, Karlie Alexandra †

Merali, Sahil Ali †

Milling, Stephanie Marie †

Mlynarczyk, Alicia Jaclyn †

Mohammed, Umayr

Morgan, Lillian *

Naeem, Hajra *

Nelson, Anika Rachelle *

Ng, Ron Kiu *

Nogier, Danielle Lee †

Osei-Yeboah, Nana Adwoa *

Patterson, Alyssa Diane †

Potkidis, Natalie *

Reza, Samiha *

Roberts, Eric Allan *

Sharif, Alisha †

Shelswell, Kevin Markus †

Slade, Shannon †

Solanki, Sanjay †

Steinman, Bethany Christine Lichti †

* – Distinction

† – Dean's Honours

Stewart, Katie Anne †
Sue, Meghan Alicia †
Symons, Adrienne Michelle †
Tahmoures-Zadeh, Taraneh *
Tan, Janet †
Templeman, Nathan John Ryan †
Tewari, Gaurav †
Thai, Glenda *
Toulch, Jonah †
Tsang, Katelyn Emily *
Tsao, Madelan Kwei-Ling *
Turner, Zachary Troy Jacob *
Wohlgemuth, Ethan David †
Workman, Christopher Stephen †
Xie, Jodie Zhuoying †
Xue, Queenie *
Yang, Yue Han †
Yau, Aaron Ming Fai *
Zhang, Eileen *
Zhang, Yuanming †
Zhao, Addison Yide *

DIPLOMA IN FRENCH LANGUAGE I

Dolcine, Kimberly Margarette
Gopaul, Rashmi

DIPLOMA IN FRENCH LANGUAGE II

Bidarkar, Ashita

DIPLOMA IN ITALIAN LANGUAGE

Herrera Contreras, Brittany Alexandra

CERTIFICATE IN CO-OPERATIVE EDUCATION IN RESEARCH

McPherson, Sara R
Tastassa, Ariel
Tello Yepes, David Felipe

CERTIFICATE IN EXPERIENTIAL EDUCATION

Alsakani, Afnan
Gopaul, Rashmi
Halim, Arshi
Lakhi, Sabiha
Li-Yim-Feng, Jenna Meryl
Mittal, Kashish
Sigler, Marissa Nicole
Velu Sundaralingam, Nitharshani

* – Distinction
† – Dean's Honours

Outstanding Achievements

MEDALS AND AWARDS

**UNIVERSITY FINALIST
FOR THE GOVERNOR
GENERAL'S GOLD MEDAL**

Doctoral
Ryan Moreira

**THE UNIVERSITY OF WATERLOO
PRESIDENT'S AWARD OF
EXCELLENCE**

Highest standing in an
undergraduate degree program
Justin Marchioni

**THE UNIVERSITY OF WATERLOO
ALUMNI GOLD MEDAL**

Outstanding academic achievement
Hin Pok Cyrus Fung

Waterloo brings home the gold

Alumni Gold Medal recipients share in the pursuit of discovery, so we created a lasting symbol to honour their achievements.

Since 1970, Alumni Gold Medals have graced the convocation gowns of our top undergraduate and graduate students. The Royal Canadian Mint produced these medals in the past – but in the true spirit of Waterloo, we've decided to make them ourselves.

Carefully crafted on campus in state-of-the-art labs, each medal is created out of nickel superalloy using a 3D printer. The surface is finished by hand to produce a brilliant shine. Through the process of electroplating, the medal is then coated in 24-carat gold. The result is a tribute to Waterloo's most accomplished graduates, made for each proud recipient by members of the University community.



GO INSIDE THE LAB AT
uwaterloo.ca/impact-stories/new-gold-medals

**CONGRATULATIONS TO THIS YEAR'S ALUMNI GOLD MEDAL RECIPIENTS!
YOU HAVE MUCH TO CELEBRATE, AND EVEN MORE TO ANTICIPATE
IN YOUR FUTURE AS UNIVERSITY OF WATERLOO ALUMNI.**

Our tradition of regalia

THE GOWN

At the University of Waterloo, as at most universities, academic robes are worn only on these special occasions. In the Middle Ages, robes were everyday clothing, and some students were so poor they had nothing else to wear. The black wrapper now called a “gown” served them as jacket, coat and sometimes bedclothes. Stone college buildings of the Middle Ages were unheated and the colourful “hood” could be pulled up to help keep out the cold wind. Today, the officers of the University, faculty members and graduating students all wear garments that are symbolic, not functional.

The scholars and students in long-ago universities were generally monks and other members of church orders. Over time, their vestments came to identify their universities. There are many variations, and the exact hood, gown or hat worn by an individual are determined by the university where they qualified. The array of colours and styles demonstrates the worldwide range of universities from which Waterloo’s faculty have come.

THE HOOD

Hoods are unique in design and colour to each degree and each university. The academic dress chosen for Waterloo is patterned after that of Oxford, the world’s oldest English-speaking university. The chief officers on the convocation platform – the Chancellor (the ceremonial head of the University) and the president (who is also Vice-Chancellor) – wear gowns of the Oxford cut and trim, each with its own distinctive colour. The gowns worn by recipients of honorary degrees have the same design, as do the black gowns worn by candidates for regular degrees, and the red-and-green gowns which are Waterloo’s regalia for Doctor of Philosophy degrees.

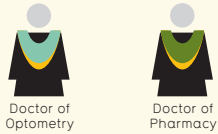
The ritual at convocation reflects the old custom that anyone in a university could wear a gown, but a hood was the symbol for a degree.

Academic Dress

BACHELOR'S



PROFESSIONAL DOCTORATE



MASTER'S



DOCTORAL



HONORARY DOCTORATE



CONVOGATION



uwaterloo.ca

[#UWaterlooGrad](https://twitter.com/UWaterlooGrad)